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SOURCE Various Soviet technical periodicals as indicated.

DATA ON 1949 STALIN PRIZE WINNERS
IN RADIO AND TELECOMMUNICATIONS

[NOTE: Lists of Stalin Prize winners in science and technology for 1949 were published in the 4 March 1950 issue of Pravda; since the above account merely presented the information without detail, a search of Soviet periodical literature published since 1945 was undertaken to attempt to provide supplementary information concerning the work for which the awards were made. Direct information was difficult to find; however, all information located is presented below on the supposition that in many cases the prizes were awarded for regularly published works.

The basis for the award, as published in the original newspaper account, are presented below in parentheses.

Television

(For the creation of a new high-quality high-fidelity television transmission system)

KREYTSER, V. L. -- [redacted] "Television in the USSR, 1925 - 1947" by V. L. Kreytser, Cand Tech Sci, Leningrad Inst of Communication Engineers. "Redesigning the Television Equipment of Moscow Television Center," article by Kreytser in the book "Radio Engineering Manual," Gosenergoizdat 1947, 184 pp, R 15, mentioned in Radiotekhnika, No 7, 1947, p 71.

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LEBEDEV-KARMANOV, A. I. -- [redacted] "Design Problems in a Modern High-Level Modulation System," Radiotekhnika, No 3, 1947, pp 3-18; gave report at VNORIE (All-Union Scientific and Technical Society of Radio Engineering and Electric Communications) meeting, 5-8 May 1948, on "Circuit for Restoring the DC Component of a Television Signal in the Modulation Unit of a UHF Transmitter," Radiotekhnika No.3, 1948, p 78; "Works of Sections of VNORIE": A. I. Lebedev-Karmanov "Comparison of Modulation Circuits in UHF Television Transmitters," 1947, 29 pp listed in Radiotekhnika, No 5, 1948, 65; "Radio Engineering Manual," Gosenergoizdat, 1947, includes article by Lebedev-Karmanov on "Principles of UHF Radio Station of Moscow TV Center."

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BRAUDE, B. V. -- Gave report at VNORIE meeting, 5-8 May 1948, on "Principle of Materialization of Wave Surfaces in the Theory of Antennas, Radiotekhnika, No 3, 1948; in Elektrichestvo, No 11, 1947, p 101, Braude listed as Stalin Prize winner, 1st Class, 1946, for designing a high-power radio station; [redacted] "A New Wide-Band UHF Antenna for Television," Radiotekhnika, No 7, 1947, pp 3-8; [redacted] "Investigation of a Complex System of Tower Antennas for Broadcasting" (work carried out in 1940-41); Radiotekhnika, No 6, 1947. "Theory of Computing Voltages on Insulators of Guyed Tower Antennas," Radio-tekhnika, No 7/8, 1946, pp 37-52; "Method of Computing the Active Resistance of an Antenna Taking into Consideration the Finite Conductivity of the Earth," Radiotekhnika, No 5, 1946, pp 61-72; [redacted] "Potential Gradients in High-Power Transmitters," Radiotekhnika No 2, 1946.

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KUPRIYANOV, N. S. -- Gave report at VNORIE meeting, 5 - 9 May 1949 on "Two Methods of Using Buck-Coupling in a Single-Stage LF Amplifier" (investigated operation of a pentode in a preamplifier for the case where the capacitor shunting the screen grid to the cathode is either small or is replaced by a complex resistance; formulas were derived for frequency and phase distortion, Radio-tekhnika, No 4, 1947, p 54; gave report at VNORIE meeting, 5 - 10 May 1947, on "Organization of High-Quality UHF Broadcasting," Radiotekhnika, No 4, 1947, p 69.

NOVAKOVSKIY, S. V. -- Gave report at VNORIE meeting, 5 - 9 May 1949, on "Use of FM for Television Retransmission Lines" (pointed out feasibility of such lines for 6,000-10,000 Mc; also spoke on TV receivers, their frequency pass band, method of tuning the oscillator, and qualitative requirements for TV lines), Radiotekhnika, No 4, 1949, p 55. Author of book Frequency Modulation, Svyaz'izdat, 1946; also, "The NS-1 Partial Detector (Discriminator)," Radio, No 6, 1949, p 42.

Physics

(For devising a new method of studying the atmosphere)

DZERDZEYEVSKIY, B. L. -- Chief of Laboratory of the Dynamics of the Atmosphere, Geophysics Institute, Dept of Physico-Mathematical Sciences, Academy of Sciences USSR; cooperated with Central Weather Institute, 1943 - 1946; in 1945 awarded Stalin Prize, 2d Class, for studies in meteorology in the Arctic (FDD Summary No 28, p 78); Author of Aerial Ocean (scientific-popular library for soldiers and sailors), Moscow, 1947.

REYKRUDEL', E. M. -- "One Method of Studying the Directed Currents in a Gas Discharge," Zhur Tekh Fiz, No 12, 1947, pp 1421-30.

Radio Apparatus

(For devising a new radio apparatus)

LIPSMAN, F. P. -- "Modulation Methods in Multichannel Retransmission Lines," article by Lipsman in the book Radio Engineering Manual, Gosenergoizdat, 1947, listed in Radiotekhnika, No 7, 1947, p 71.

DLUGACH, G. V. -- Gave report at VNORIE meeting, 5 - 10 May 1947, on "Measuring the Sensitivity of a Receiver in the Decimeter Wave Range," Radiotekhnika, No 4, 1947, p 69.

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Communications Equipment

(For work in the field of communications equipment)

AMARANTOV, V. N. -- [redacted] "New Three-Channel HF Telephone Equipment for Open Wire Communication Lines" (joint article by Amarantov and Staritsyn), Vestnik Svyazi. Elektrosvyaz, No 11, 1948, and concluded in No 12, AMC [redacted] "Newly-Designed Apparatus for a Three-Channel System" presented at VNORIE meeting 5 - 10 May 1947, Radiotekhnika No 4, 1947, p 70.

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UDALOV, A. P. -- Gave report at VNORIE meeting, 5 - 8 May 1948, Radiotekhnika, No 3, 1948, p 77, on "Physical-Technical Characteristics of Thermo-Controllable Resistors and Their Use in Long-Distance Communication Techniques" (investigation pertained to use of these resistors in AVC circuits and the design of such circuits without moving parts or contacts and with a wide-range of regulation.)

Radio Apparatus

(For developing and putting into serial production new radio apparatus)

GINKIN, G. G. -- Handbook of Radio Engineering, 1948, 824 pp.

SOKOLOV, I. T. -- "Measuring the Coefficient of Frequency Modulation," Radiotekhnika, No 7, 1947.

Photographic Materials

(For developing a new type of photographic material)

CHEL'TSOV, V. S. -- (jointly with G. I. Arbuzov and K. L. Merts) "Research in Color Phenomena in Multilayer Films," Report No 72, Works of NIKFI (Scientific Research Institute of Cinematography), No 7, 1947 (Main Title: 1944), pp 117-24, bibl.-16 items.

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